Energy and Heat Review: Test - Monday, Nov. 2, 2015

***Temperature Conversions***

K = C + 273 C = K - 273

C = (F - 32) x 5/9 F = (C x 9/5) + 32

Use the formula to convert the following: \*use your calculator\*

1) 250 Kelvin to Celsius

2) 89.5 Fahrenheit to Celsius

3) 17 Celsius to Kelvin

4) 15 Celsius to Fahrenheit

5) 55 Celsius to Kelvin

6) 339 Kelvin to Celsius

***Vocabulary***

kinetic energy

potential energy

mechanical energy

radiant energy

thermal energy

electrical energy

chemical energy

nuclear energy

conduction

convection

radiation

energy conversion/transformation

SI units

Where does most of the energy that living organisms us come from?

What energy source is stored in fossil fuels?

Where does biofuel come from?

List as many ways as you can think of to save energy resources in your home:

renewable \_\_\_\_\_\_ non-renewable

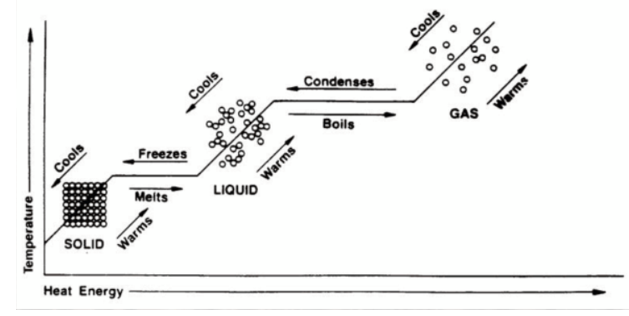
Sort the following into renewable and non-renewable resources:

-takes millions of years to form

-solar, wind, hydropower, petroleum, coal, natural gas, nuclear, geothermal, biofuel

- resources that have the potential to be replaced over time by natural processes

- resources that are limited

***Phase Change Diagram***

Boiling point = freezing point = melting point = condensation point =

***Scientific Method***

Problem Statement

Hypothesis

Materials

Procedure

Independent variable

Dependent variable

Results/Data

Conclusion